

Title (en)

A method for controlling an armature of a high speed electromagnetic actuator

Title (de)

Verfahren zur Steuerung eines Ankers eines elektromagnetisches Hochgeschwindigkeitsbedienungselement

Title (fr)

Méthode pour contrôler l'armature d'un élément de commande électromagnétique à grande vitesse

Publication

**EP 1049114 A2 20001102 (EN)**

Application

**EP 00103929 A 20000225**

Priority

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Abstract (en)

A method is provided to control velocity of an armature of an electromagnetic actuator as the armature moves from a first position towards a second position. The electromagnetic actuator includes an electromagnet having a coil and a stator core at the second position. The method includes permitting the armature to move towards the stator core. Magnetic flux in a magnetic circuit created by the armature and electromagnet is determined when the armature is moving toward the stator core. The determined magnetic flux is used as a feedback variable to control energy to the coil so as to control a velocity of the armature as the armature moves towards the stator core. <IMAGE>

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**H01F 7/18**; F01L 9/04

IPC 8 full level

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CPC (source: EP)

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Citation (third parties)

Third party :

WO 9838656 A1 19980903 - FEV MOTORENTECH GMBH & CO KG [DE], et al

Cited by

GB2385432A; GB2385432B; EP1209328A3; US6741441B2; US6683775B2

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